

FIG. 1

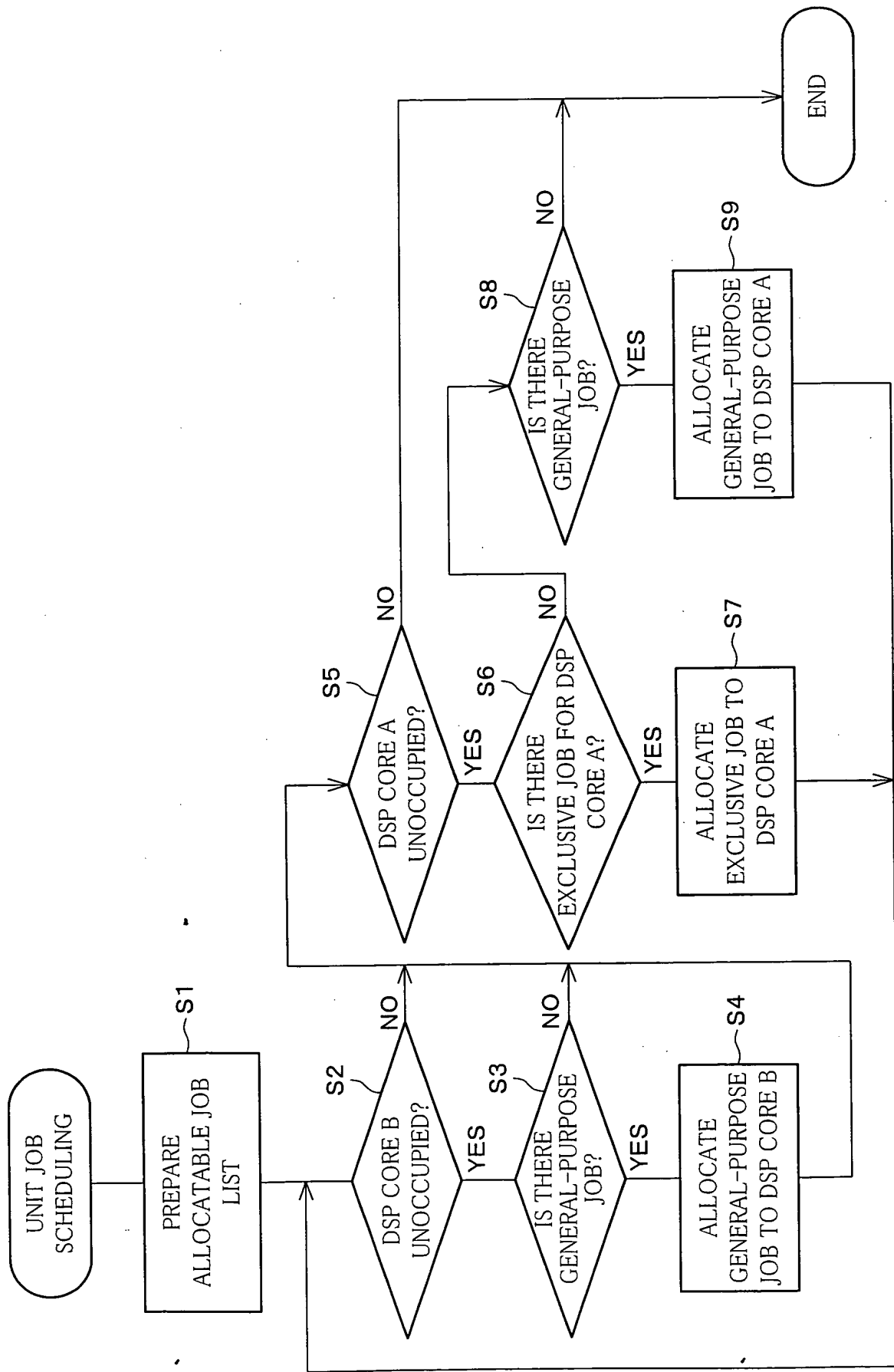


FIG. 2

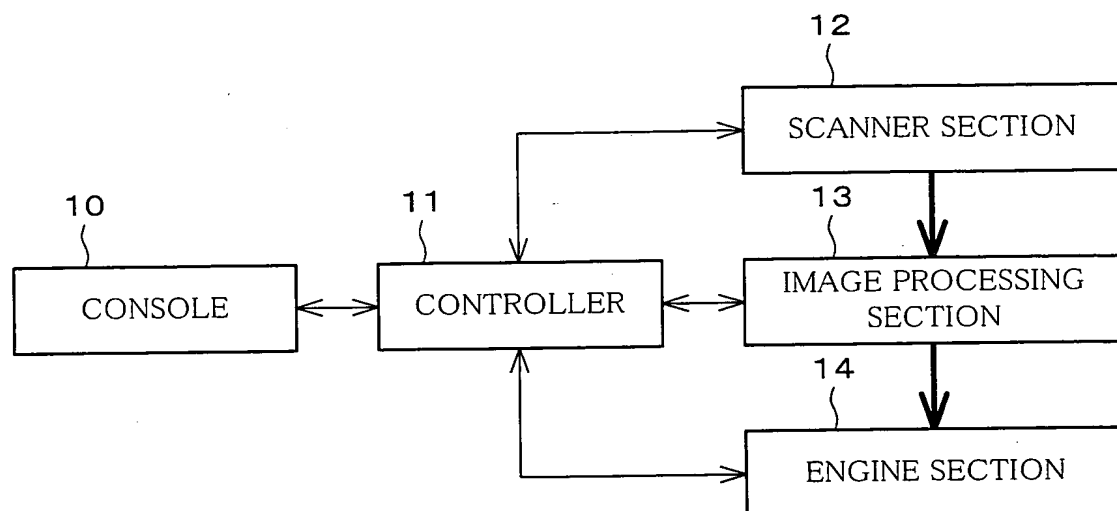


FIG. 3

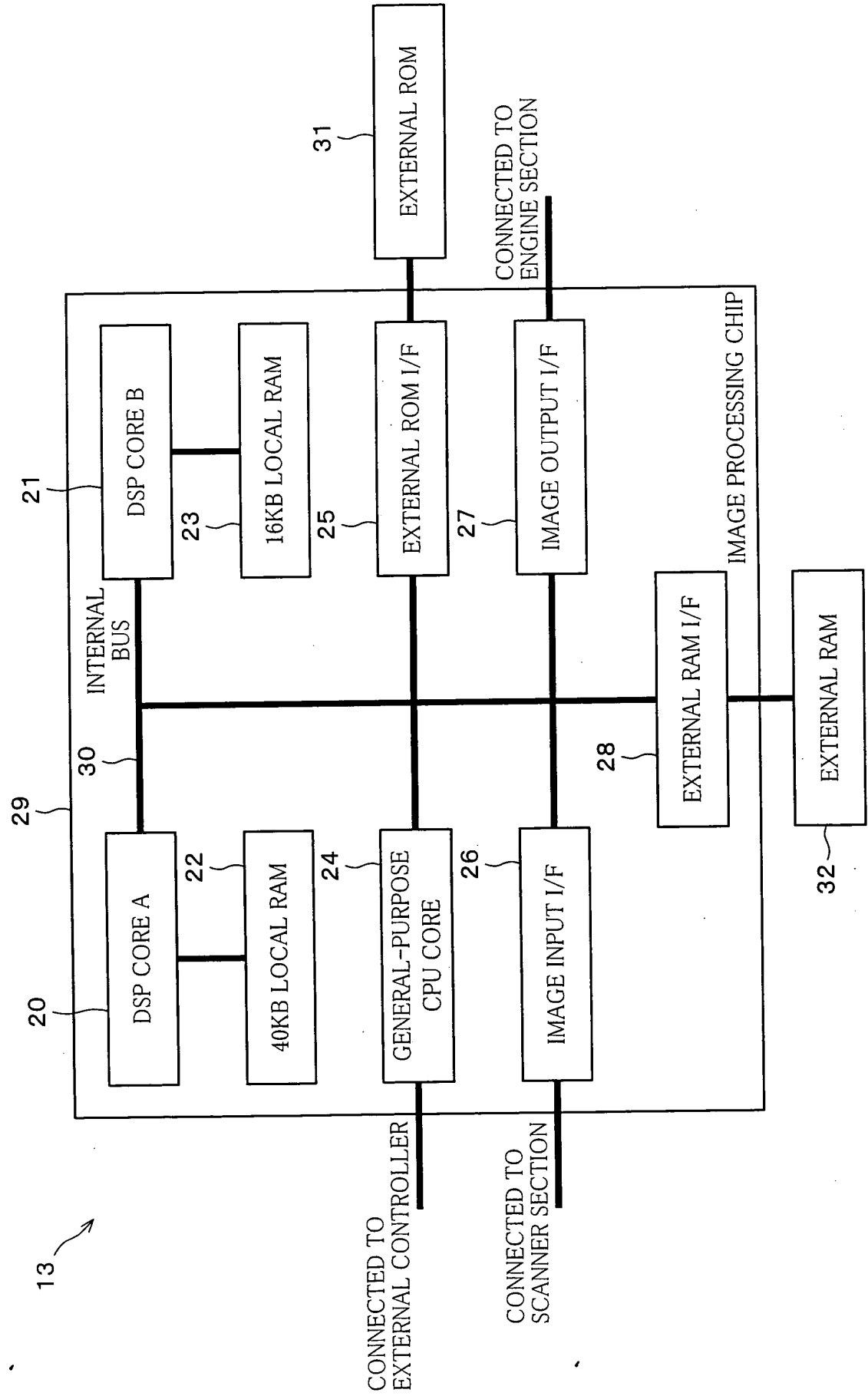


FIG. 4 (a)

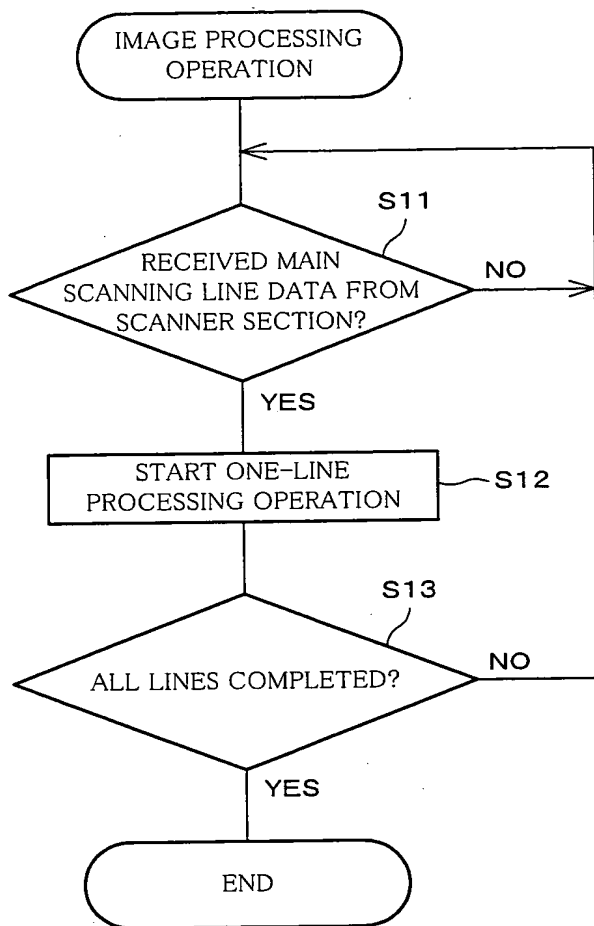


FIG. 4 (b)

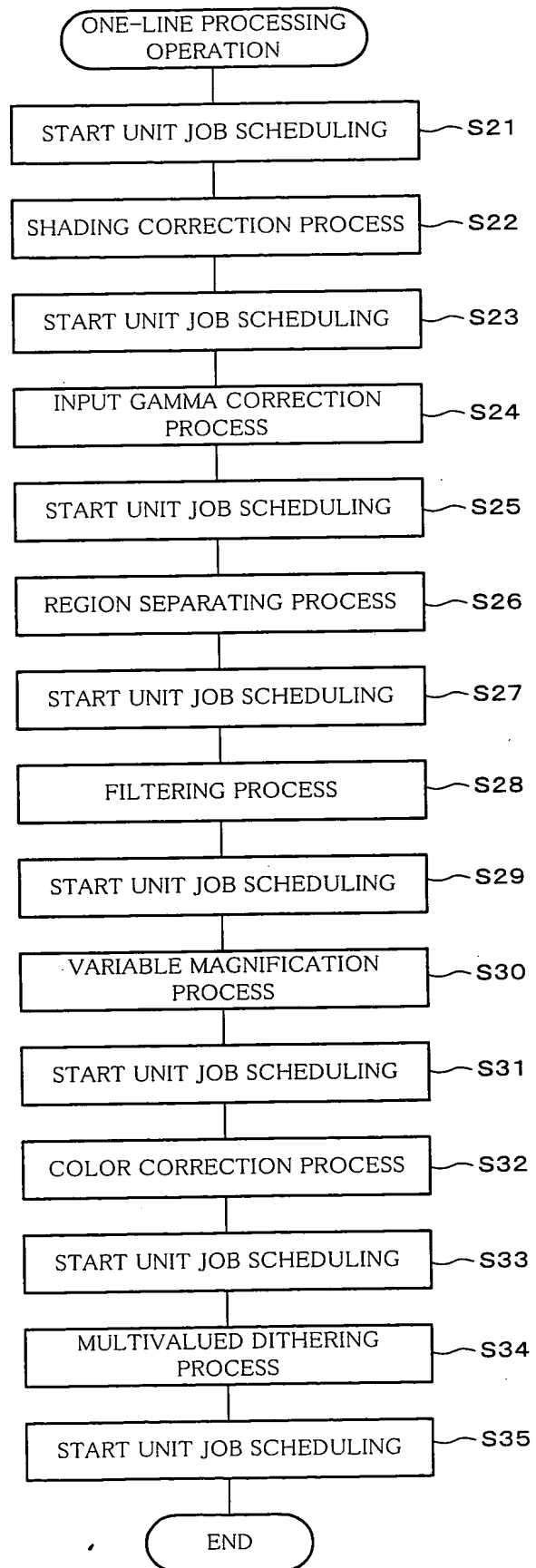


FIG. 5 (a)

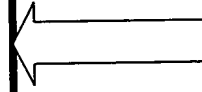
UNIT JOB NAME	TIME UNIT/LINE		EXECUTABLE FOR DSP CORE B 21?	PROCESS THAT SHOULD BE EXECUTED NEXT
	MINIMUM EXECUTION TIME	MAXIMUM EXECUTION TIME		
SHADING CORRECTION PROCESS	5	15	YES	INPUT GAMMA CORRECTION PROCESS
INPUT GAMMA CORRECTION PROCESS	20	35	YES	REGION SEPARATING PROCESS
REGION SEPARATING PROCESS	130	320	YES	FILTERING PROCESS
FILTERING PROCESS	60	160	NO	VARIABLE MAGNIFICATION PROCESS
VARIABLE MAGNIFICATION PROCESS	35	45	YES	COLOR CORRECTION PROCESS
COLOR CORRECTION PROCESS	120	140	NO	MULTIVALUED DITHERING PROCESS
MULTIVALUED DITHERING PROCESS	60	80	YES	NONE

FIG. 5 (b)

TIME UNIT/LINE	
INTERVAL OF RECEIVING MAIN SCANNING LINE DATA	350

FIG. 6

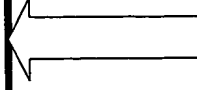
		DSP CORE A		DSP CORE B	
JOB CURRENTLY ALLOCATED FOR EXECUTION	NAME		REGION SEPARATING PROCESS		MULTIVALUED DITHERING PROCESS
	TARGET MAIN SCANNING LINE NUMBER		101		100
	ESTIMATED COMPLETION TIME		35720(MIN), 35910(MAX)		35710(MIN), 35730(MAX)
JOB TO BE ALLOCATED NEXT FOR EXECUTION	NAME		UNOCCUPIED		SHADING CORRECTION PROCESS
	TARGET MAIN SCANNING LINE NUMBER				102
	EXECUTION STARTABLE TIME				35700 (UNIT JOB ALLOCATED PERIODICALLY)



		FILTERING PROCESS		INPUT GAMMA CORRECTION PROCESS	
LIST OF EXECUTABLE UNIT JOBS	NAME				
	TARGET MAIN SCANNING LINE NUMBER		101		102
	EXECUTION STARTABLE TIME		35720(MIN), 35910(MAX)		35705(MIN), 35715(MAX)

FIG. 7

JOB CURRENTLY ALLOCATED FOR EXECUTION	NAME	DSP CORE A		DSP CORE B	
	TARGET MAIN SCANNING LINE NUMBER	REGION SEPARATING PROCESS		SHADING CORRECTION PROCESS	
	ESTIMATED COMPLETION TIME	200		201	
		70720(MIN), 70910(MAX)		70730(MIN), 70740(MAX)	
JOB TO BE ALLOCATED NEXT FOR EXECUTION	NAME	FILTERING PROCESS		UNOCCUPIED	
	TARGET MAIN SCANNING LINE NUMBER	200			
	EXECUTION STARTABLE TIME	70720(MIN), 70910(MAX)			



LIST OF EXECUTABLE UNIT JOBS		NAME	SHADING CORRECTION PROCESS	INPUT GAMMA CORRECTION PROCESS
		TARGET MAIN SCANNING LINE NUMBER	202	201
		EXECUTION STARTABLE TIME	70700 (UNIT JOB ALLOCATED PERIODICALLY)	70730(MIN), 70740(MAX)

FIG. 8

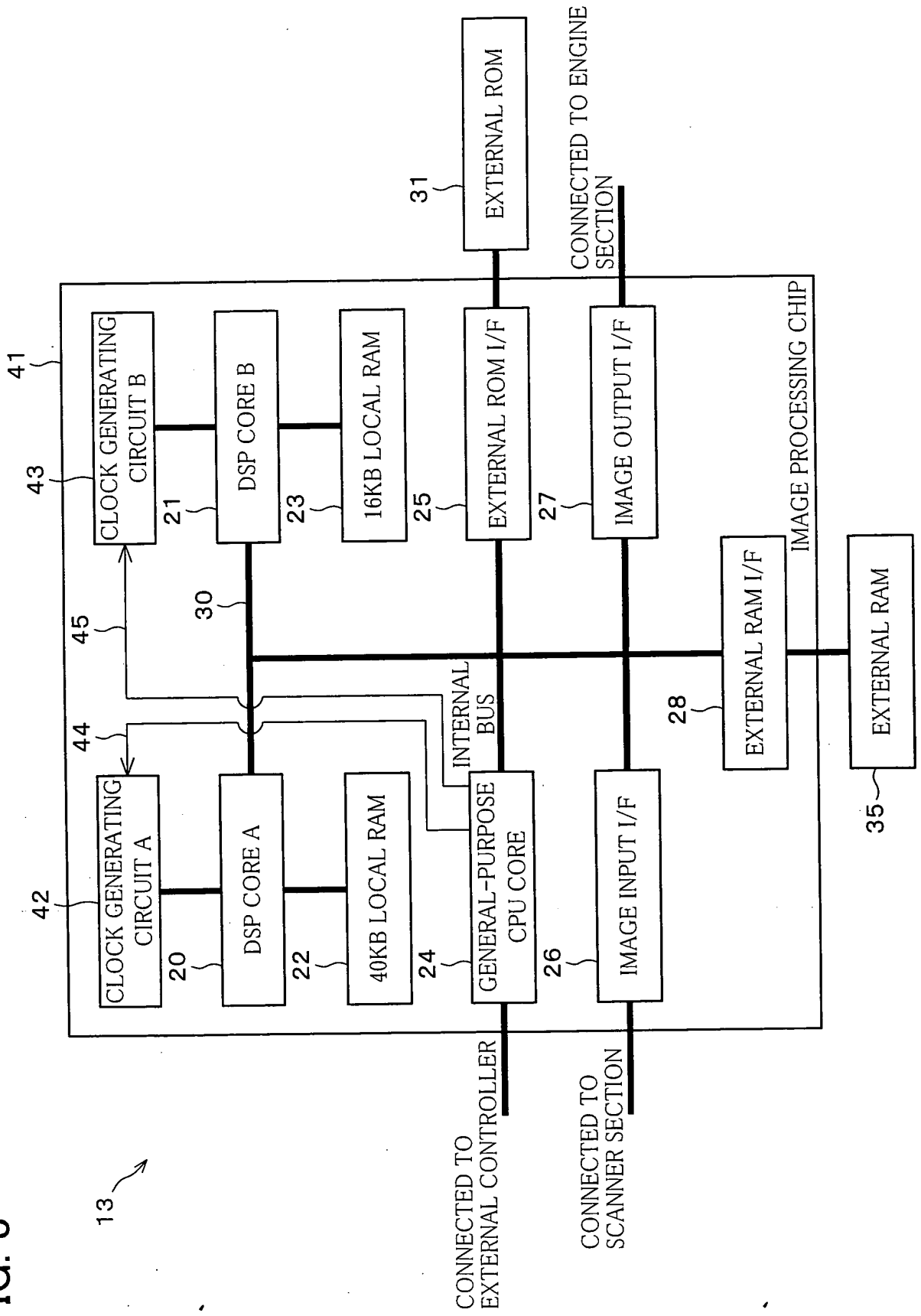


FIG. 9 (a)

TIME UNIT/LINE								
DSP CORE A					DSP CORE B			
UNIT JOB NAME	MINIMUM EXECUTION TIME	AVERAGE EXECUTION TIME	MAXIMUM EXECUTION TIME	MINIMUM EXECUTION TIME	AVERAGE EXECUTION TIME	MAXIMUM EXECUTION TIME	PROCESS THAT SHOULD BE EXECUTED NEXT	
SHADING CORRECTION PROCESS	45	50	55	45	50	55	INPUT GAMMA CORRECTION PROCESS	
INPUT GAMMA CORRECTION PROCESS	60	70	75	60	70	75	REGION SEPARATING PROCESS	
REGION SEPARATING PROCESS	130	200	320	130	200	320	FILTERING PROCESS	
FILTERING PROCESS (FILTERING PROCESS CODE A)	60	120	160	-	-	-	VARIABLE MAGNIFICATION PROCESS	
FILTERING PROCESS (FILTERING PROCESS CODE B)	-	-	-	100	200	300	VARIABLE MAGNIFICATION PROCESS	
VARIABLE MAGNIFICATION PROCESS	65	70	75	65	70	75	COLOR CORRECTION PROCESS	
COLOR CORRECTION PROCESS	180	190	200	-	-	-	MULTIVALUED DITHERING PROCESS	
MULTIVALUED DITHERING PROCESS	120	140	160	120	140	160	NONE	

FIG. 9 (b)

TIME UNIT/LINE	
INTERVAL OF RECEIVING MAIN SCANNING LINE DATA	500

FIG. 10

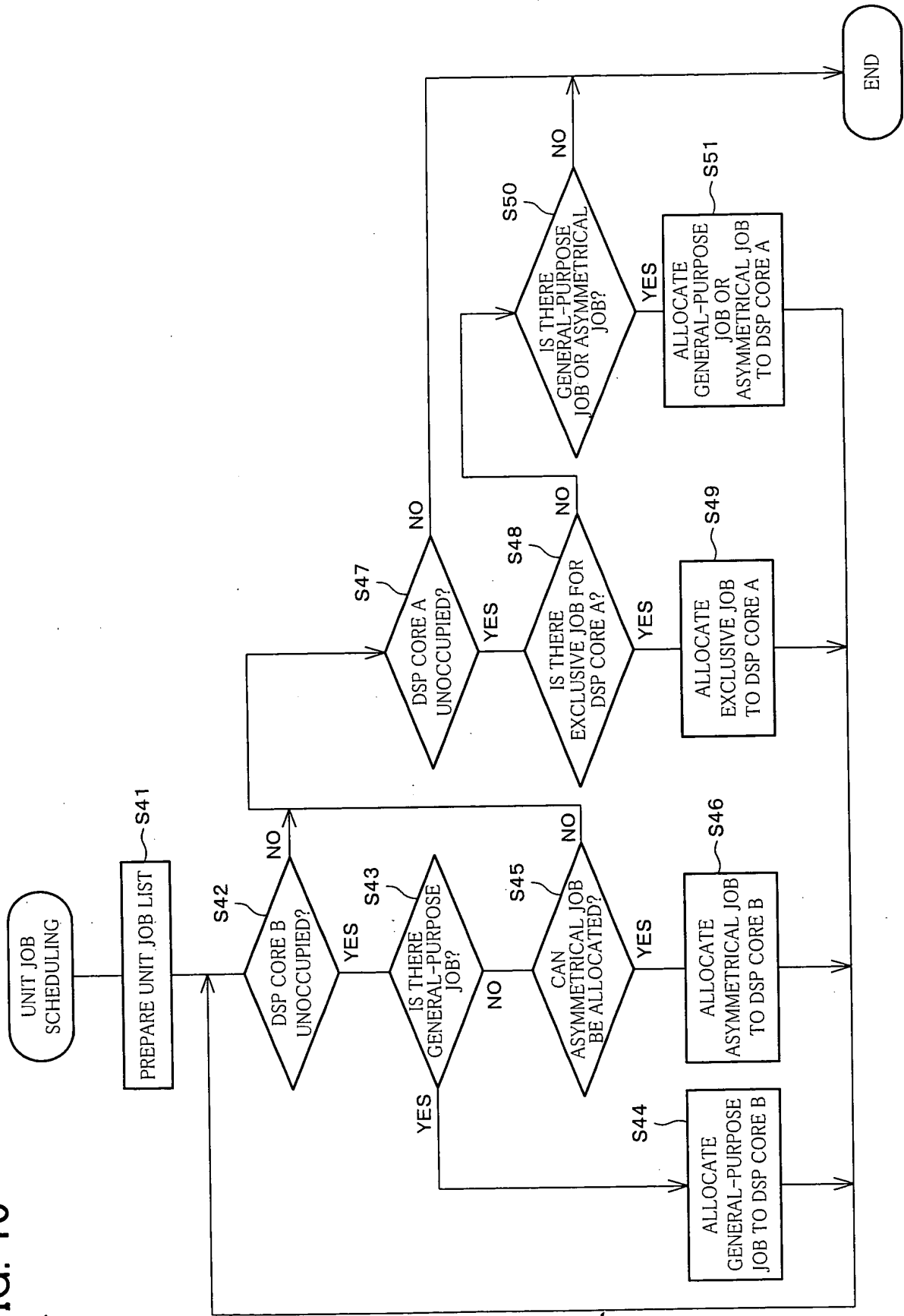


FIG. 11

JOB CURRENTLY ALLOCATED FOR EXECUTION	NAME	DSP CORE A		DSP CORE B
	TARGET MAIN SCANNING LINE NUMBER	COLOR CORRECTION PROCESS		REGION SEPARATING PROCESS
	ESTIMATED COMPLETION TIME	99	100	
		50220(MIN), 50230(TYP), 50240(MAX)	50180(MIN), 50250(TYP), 50370(MAX)	
JOB TO BE ALLOCATED NEXT FOR EXECUTION	NAME	MULTIVALUED DITHERING PROCESS		UNOCCUPIED
	TARGET MAIN SCANNING LINE NUMBER	99		
	EXECUTION STARTABLE TIME	50220(MIN), 50230(TYP), 50240(MAX)		
	ESTIMATED COMPLETION TIME	50340(MIN), 50370(TYP), 50400(MAX)		



LIST OF EXECUTABLE UNIT JOBS	NAME		FILTERING PROCESS
	TARGET MAIN SCANNING LINE NUMBER	100	
	EXECUTION STARTABLE TIME	50180(MIN), 50250(TYP), 50370(MAX)	
LIST OF SCHEDULED UNIT JOBS	NAME		SHADING CORRECTION PROCESS
	TARGET MAIN SCANNING LINE NUMBER	101	
	EXECUTION STARTABLE TIME	50500 (UNIT JOB ALLOCATED PERIODICALLY)	

FIG. 12 (a)

TIME UNIT/LINE										
DSP CORE A						DSP CORE B				
UNIT JOB NAME	MINIMUM EXECUTION TIME	AVERAGE EXECUTION TIME	MAXIMUM EXECUTION TIME	AVERAGE POWER CONSUMPTION INDEX	MINIMUM EXECUTION TIME	AVERAGE EXECUTION TIME	MAXIMUM EXECUTION TIME	AVERAGE POWER CONSUMPTION INDEX	PROCESS THAT SHOULD BE EXECUTED NEXT	
SHADING CORRECTION PROCESS	45	50	55	60	45	50	55	40	INPUT GAMMA CORRECTION PROCESS	
INPUT GAMMA CORRECTION PROCESS	60	70	75	80	60	70	75	50	REGION SEPARATING PROCESS	
REGION SEPARATING PROCESS	130	200	320	270	130	200	320	180	FILTERING PROCESS	
FILTERING PROCESS (FILTERING PROCESS CODE A)	60	120	160	140	-	-	-	-	VARIABLE MAGNIFICATION PROCESS	
FILTERING PROCESS (FILTERING PROCESS CODE B)	-	-	-	-	100	200	300	160	VARIABLE MAGNIFICATION PROCESS	
VARIABLE MAGNIFICATION PROCESS	65	70	75	80	65	70	75	60	COLOR CORRECTION PROCESS	
COLOR CORRECTION PROCESS	180	190	200	220	-	-	-	-	MULTIVALUED DITHERING PROCESS	
MULTIVALUED DITHERING PROCESS	120	140	160	170	120	140	160	110	NONE	

FIG. 12 (b)

TIME UNIT/LINE	
INTERVAL OF RECEIVING MAIN SCANNING LINE DATA	500

FIG. 13

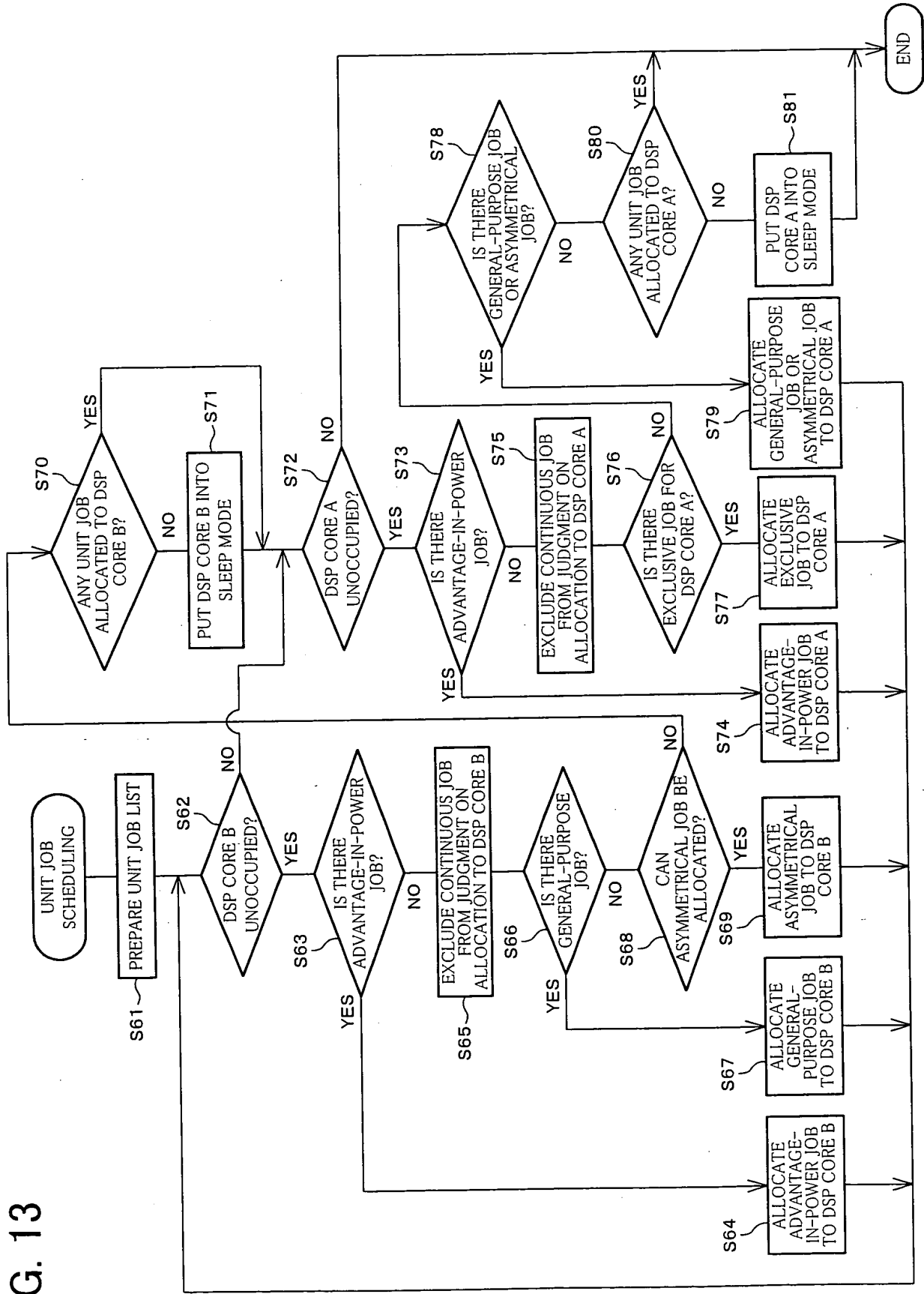


FIG. 14

